Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
= A/0.45				A	440.00			
				B	978.00	Nos	368.28	360173.73
SRRB 800-1. **Painting two coats** after filling the surface with synthetic enamel paint in approved hades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (P.No-183, I No-24.1)								
Basic rate	60.00							
11% AD-HOC	6.60							
Sub Total-1	66.60							
6% AW	4.00							
Sub Total-2	70.60							
	2	600.00	0.35		420.00			
					420.00	Sqm	70.60	29,650.32
KSRRB M800-13: Road marking with hot applied thermoplastic compound with reflect rising glass beads on bituminous surface- providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface to level, uniform and free from streaks and holes complete as per specifications. MORTH specification No. 803, No. 1974 (P.No.185 & I.No.24.15)								
Basic rate	512.00							
11% AD-HOC	56.32							
Sub Total-1	568.32							
6% AW	34.10							
Sub Total-2	602.42							
2nd main	2	160.00	0.10		32.00			
	2	133.50	0.10		26.70			
	2	102.00	0.10		20.40			
	2	84.00	0.10		16.80			
	2	253.00	0.10		50.60			
	2	80.00	0.10		16.00			
	2	83.00	0.10		16.60			
	2	55.00	0.10		11.00			
	2	58.00	0.10		11.60			
	2	188.00	0.10		37.60			
	2	171.00	0.10		34.20			
	2	196.00	0.10		39.20			
	2	214.00	0.10		42.80			
	2	106.00	0.10		21.20			
	2	144.00	0.10		28.80			
	2	288.00	0.10		57.60			
					463.10	Sqm	602.42	278980.33
KSRRB M800 Road markers / Road stud KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, diecast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications.(P.No-189,I No-24.41)								
Basic rate	339.00							
11% AD-HOC	37.29							
Sub Total-1	376.29							
6% AW	22.58							
Sub Total-2	398.87							
		4000.00			8000.00			

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
					1333.33	Nos	398.87	531823.20
							Total Construction Cost	14774700.31
							DPR & PMC Charges	225000.00
							Sub Total	14999700.31
							Utility Shifting, Miscellaneous, Rounding off	299.69
							GRAND TOTAL	15000000.00

ertificate

. The workspot was inspected and works is found to be necessary.
. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
. The rates adopted based on the PWD SR,Bangalore circle for year 2016-2017, issue rates and Data Rates.

Assistant Engineer

Asst. Executive Engineer,

Executive Engineer,
Yelahanka Division,
BBMP Bangalore
7/2/18

Administrative Approval
Accorded For 150.00 lakhs only
Head of A/C P-2415
CER NO :...639..... Dt:..08/

E.E. (Project)

Technical Sanction
Accorded For 150.00 lakhs only
Head of A/C P-2415
CER NO :...639..... Dt:08/02/2018

TA

CE (YNK)

Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Yelahanka Division

e of Work: Improvements to Roads And Drains at 2nd ,3rd 4th and 5th 6th 7th main roads at Judicial Layout in ward no.04

					Estimate Cost Rs.			100.00 Lakhs
Description of Items	**No**	**Length**	**Width**	**Depth**	**Quantity**	**Unit**	**Rate**	**Amount**
moving & Refixing Stone Slabs of drains and Pointing in C.M(1:3). (Page No 25., I.No.5.33 of KPWD R 2016-17)								
sic rate	76.00							
1% AD-HOC	8.36							
ub Total-1	84.36							
% AW	5.06							
ub Total-2	89.42							
op slab								
	2	142.00	1.00		284.00			
	2	105.00	1.00		210.00			
	2	128.00	1.00		256.00			
	2	100.00	1.00		200.00			
	2	88.00	1.00		176.00			
	2	116.00	1.00		232.00			
	2	266.00	1.00		532.00			
	2	145.00	1.00		290.00			
	2	68.00	1.00		136.00			
	2	125.00	1.00		250.00			
	2	65.00	1.00		130.00			
	2	65.00	1.00		130.00			
	2	65.00	1.00		130.00			
	2	160.00	1.00		320.00			
	2	103.00	1.00		206.00			
Drain slab								
	2	142.00	1.65		468.60			
	2	105.00	1.65		346.50			
	2	128.00	1.65		422.40			
	2	100.00	1.65		330.00			
	2	88.00	1.65		290.40			
	2	116.00	1.65		382.80			
	2	266.00	1.65		877.80			
	2	145.00	1.65		478.50			
	2	68.00	1.65		224.40			
	2	125.00	1.65		412.50			
	2	65.00	1.65		214.50			
	2	65.00	1.65		214.50			
	2	65.00	1.65		214.50			
	2	160.00	1.65		528.00			
	2	103.00	1.65		339.90			
Total Qty					**9227.30**			
Consider 30% of total Qty					**2768.19**			
					2768.19	**Sqm**	**89.42**	**247535.98**

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
oviding precast slab of 100 mm thick including cost of all materials, labour, ring,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge-ta rate								
sic rate	2100.00							
% of Total qty of Item no -1 precast slab					104.46			
					104.46	**Sqm**	**2100.00**	**219366.00**
oviding granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including king curing etc., complete. 7.5cm thick (Page No 25., I.No.5.31.1 of KPWD S.R 2016-17).								
asic rate	628.00							
1% AD-HOC	69.08							
ub Total-1	697.08							
% AW	41.82							
ub Total-2	738.90							
onsider 10% of Total qty of tem no -1					922.73			
					922.73	**Sqm**	**738.90**	**681809.63**
SRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (Page No142., I.No.19.1 of KPWD S.R 2016-17).								
Basic rate	82.00							
11% AD-HOC	9.02							
Sub Total-1	91.02							
6% AW	5.46							
Sub Total-2	96.48							
10km ld & lt, transport	100.00							
Sub Total-3	196.48							
	2	142.00	0.50	0.50	71.00			
	2	105.00	0.50	0.50	52.50			
	2	128.00	0.50	0.50	64.00			
	2	100.00	0.50	0.50	50.00			
	2	88.00	0.50	0.50	44.00			
	2	116.00	0.50	0.50	58.00			
	2	266.00	0.50	0.50	133.00			
	2	145.00	0.50	0.50	72.50			
	2	68.00	0.50	0.50	34.00			
	2	125.00	0.50	0.50	62.50			
	2	65.00	0.50	0.50	32.50			
	2	65.00	0.50	0.50	32.50			
	2	65.00	0.50	0.50	32.50			
	2	160.00	0.50	0.50	80.00			
	2	103.00	0.50	0.50	51.50			
UGD Cut portion								
	1	142.00	1.00	0.40	56.80			
	1	105.00	1.00	0.40	42.00			
	1	128.00	1.00	0.40	51.20			
	1	100.00	1.00	0.40	40.00			
	1	88.00	1.00	0.40	35.20			

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
ss road -5	1	116.00	1.00	0.40	46.40			
	1	266.00	1.00	0.40	106.40			
	1	145.00	1.00	0.40	58.00			
	1	68.00	1.00	0.40	27.20			
	1	125.00	1.00	0.40	50.00			
	1	65.00	1.00	0.40	26.00			
	1	65.00	1.00	0.40	26.00			
	1	65.00	1.00	0.40	26.00			
	1	160.00	1.00	0.40	64.00			
	1	103.00	1.00	0.40	41.20			
id reaches	7	15.00	6.00	0.40	252.00			
ilvert	2	8.00	1.50	1.20	28.80			
					1847.70	**Cum**	**196.48**	**363038.31**
SRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 20kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892cum and fine ggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well ompacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing omplete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.2)/ PWD SR 2016-17								
asic rate	5046.00							
1% AD-HOC	555.06							
ub Total-1	5601.06							
6% AW	336.06							
ub Total-2	5937.12							
culvert	2	8.00	1.50	0.15	3.60			
					3.60	**Cum**	**5937.12**	**21,373.64**
KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (P.23/I.5.9)/ PWD SR 2016-17								
Basic rate	5005.00							
11% AD-HOC	550.55							
Sub Total-1	5555.55							
6% AW	333.33							
Sub Total-2	5888.88							
culvert	4	8.00	0.45	0.70	10.08			
					10.08	**Cum**	**5888.88**	**59,359.94**
KSRB - 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates at 0.78cum and fine aggregates at 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms.thick, well compacted, in foundation, plinth and cills including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. (P.No.12, I.No.4.6 of PW, P&IWTD SR 2016-17)								
Basic rate	5441.00							
11% AD-HOC	598.51							
Sub Total-1	6039.51							
6% AW	362.37							
Sub Total-2	6401.88							
culvert	4	8.00	0.45	0.10	1.44			
					1.44	**Cum**	**6401.88**	**9,218.71**

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
oviding precast slab of 250 mm thick including cost of all materials, labour, ring,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge-ata rate)								
asic rate	5111.00							
	2	8.00	1.50		24.00			
					24.00	**Sqm**	**5111.00**	**122664.00**
SRRB M400-6.1. Construction of granular sub-base by providing close graded material, crushed tone aggregates of granite/trap/basalt material, mixing in a mechaical mix plant at OMC, carriage of ixed material to work site, spreading in uniform layers with motor grader on prepared surface and ompacting with vibratory power roller to achieve the desired density, complete as per specifications. . Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material Page No 155., I.No.20.4.2 of KPWD S.R 2016-17).								
Basic rate	1571.00							
11% AD-HOC	172.81							
Sub Total-1	1743.81							
6% AW	104.63							
Sub Total-2	1848.44							
UGD Cut portion								
cross road -3	1	142.00	1.00	0.15	21.30			
cross road -4	1	105.00	1.00	0.15	15.75			
	1	128.00	1.00	0.15	19.20			
	1	100.00	1.00	0.15	15.00			
	1	88.00	1.00	0.15	13.20			
	1	116.00	1.00	0.15	17.40			
	1	266.00	1.00	0.15	39.90			
	1	145.00	1.00	0.15	21.75			
	1	68.00	1.00	0.15	10.20			
	1	125.00	1.00	0.15	18.75			
	1	65.00	1.00	0.15	9.75			
	1	65.00	1.00	0.15	9.75			
cross road -3	1	65.00	1.00	0.15	9.75			
cross road -4	1	160.00	1.00	0.15	24.00			
3rd cross	1	103.00	1.00	0.15	15.45			
Bad reaches	7	15.00	6.00	0.15	94.50			
					355.65	**Cum**	**1848.44**	**657397.19**
KSRRB M400- Wet Mix Macadam - KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.158 I.No.20.18)								
Basic rate	1668.00							
11% AD-HOC	183.48							
Sub Total-1	1851.48							
6% AW	111.09							
Sub Total-2	1962.57							
UGD Cut portion								
	1	142.00	1.00	0.225	31.95			
	1	105.00	1.00	0.225	23.63			
	1	128.00	1.00	0.225	28.80			

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	1	100.00	1.00	0.225	22.50			
	1	88.00	1.00	0.225	19.80			
	1	116.00	1.00	0.225	26.10			
	1	266.00	1.00	0.225	59.85			
	1	145.00	1.00	0.225	32.63			
	1	68.00	1.00	0.225	15.30			
	1	125.00	1.00	0.225	28.13			
	1	65.00	1.00	0.225	14.63			
	1	65.00	1.00	0.225	14.63			
	1	65.00	1.00	0.225	14.63			
cross road -4	1	160.00	1.00	0.225	36.00			
3rd cross	1	103.00	1.00	0.225	23.18			
Bad reaches	7	15.00	6.00	0.225	141.75			
					533.48	**Cum**	**1962.57**	**1046981.39**
Providing and applying primer coat with ss bitumen emulsion on prepared surface of granular base such as WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. MORTH Specification No.502 (P.No.160/It No.21.6)								
Basic rate	26.00							
11% AD-HOC	2.86							
Sub Total-1	28.86							
6% AW	1.73							
Sub Total-2	30.59							
UGD Cut portion								
	1	142.00	1.00		142.00			
	1	105.00	1.00		105.00			
	1	128.00	1.00		128.00			
	1	100.00	1.00		100.00			
	1	88.00	1.00		88.00			
cross road -5	1	116.00	1.00		116.00			
3rd cross, Sharada nagar	1	266.00	1.00		266.00			
	1	145.00	1.00		145.00			
	1	68.00	1.00		68.00			
	1	125.00	1.00		125.00			
	1	65.00	1.00		65.00			
	1	65.00	1.00		65.00			
	1	65.00	1.00		65.00			
	1	160.00	1.00		160.00			
	1	103.00	1.00		103.00			
Bad reaches	7	15.00	6.00		630.00			
Profile correction								
	1	142.00	2.50		355.00			
	1	105.00	2.50		262.50			
	1	128.00	2.50		320.00			
	1	100.00	2.50		250.00			
	1	88.00	2.50		220.00			
	1	116.00	2.50		290.00			
	1	266.00	2.50		665.00			
	1	145.00	2.50		362.50			
1st main	1	68.00	2.50		170.00			

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	1	125.00	2.20		275.00			
	1	65.00	2.40		156.00			
	1	65.00	2.50		162.50			
	1	65.00	2.10		136.50			
	1	160.00	2.60		416.00			
	1	103.00	2.00		206.00			
					6618.00	**Sqm**	**30.59**	**202455.21**

SRRB M500- 15. Providing, laying dense graded bituminous macadam using 40/60 TPH capacity .M.P with Mechanical paver Gr-II (50mm to 75mm), crushed aggregates of specified grading remixed with 4.5% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying o the required level and grade, rolling with smooth wheeled, vibratory and tandem rollers to achieve he desired compaction as per MORTH table 500-10 complete in all respects complete as per pecifications MORTH Specification No.507 (P.No.162&163 It.No.21.17.6)

Basic rate	6717.00							
11% AD-HOC	738.87							
Sub Total-1	7455.87							
6% AW	447.35							
Sub Total-2	7903.22							
UGD Cut portion								
	1	142.00	1.00	0.05	7.10			
	1	105.00	1.00	0.05	5.25			
	1	128.00	1.00	0.05	6.40			
	1	100.00	1.00	0.05	5.00			
	1	88.00	1.00	0.05	4.40			
	1	116.00	1.00	0.05	5.80			
	1	266.00	1.00	0.05	13.30			
	1	145.00	1.00	0.05	7.25			
	1	68.00	1.00	0.05	3.40			
	1	125.00	1.00	0.05	6.25			
cross road -1	1	65.00	1.00	0.05	3.25			
cross road -2	1	65.00	1.00	0.05	3.25			
cross road -3	1	65.00	1.00	0.05	3.25			
cross road -4	1	160.00	1.00	0.05	8.00			
3rd cross	1	103.00	1.00	0.05	5.15			
Bad reaches	7	15.00	6.00	0.05	31.50			
Profile correction								
	1	142.00	2.25	0.05	15.98			
	1	105.00	2.25	0.05	11.81			
	1	128.00	2.25	0.05	14.40			
	1	100.00	2.25	0.05	11.25			
	1	88.00	2.25	0.05	9.90			
	1	116.00	2.25	0.05	13.05			
	1	266.00	2.25	0.05	29.93			
	1	145.00	2.25	0.05	16.31			
	1	68.00	2.25	0.05	7.65			
	1	125.00	2.20	0.05	13.75			
	1	65.00	2.40	0.05	7.80			
	1	65.00	2.50	0.05	8.13			
	1	65.00	2.10	0.05	6.83			